DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Washington

DESCRIPTIVE REPORT
Topographic Hydrographic
Sheet No. 4236 Mountain Peaks and Prominent Objects

LOCALITY
Strait of Juan de Fuca
Port Discovery to
Glacier Pt., Vancouver I.

1936

CHIEF OF PARTY
H. A. Cotton
MOUNTAIN PEAKS
and other
PROMINENT OBJECTS
STRAITS OF JUAN DE FUCA
LOCATED BY
U. S. O. & G. SURVEY SHIP NATOMA

HAROLD A. COTTON, HYD. & GEO. ENGINEER COMMANDING

There are furnished herewith descriptions of Mountain Peaks and other prominent objects along the shores of the Straits of Juan de Fuca. These objects were located by the party of the NATOMA during the field season April 7th to July 13th, 1926 in accordance with the Directors Instructions dated March 4th, 1926.

2. In the following descriptions, these objects are grouped as follows:
   I : Objects on United States (southern) side of Straits.
       (a) Skyline peaks, etc.
       (b) Peaks, etc. below the skyline.
   II : Objects on Canadian (northern) side of Straits.
       (a) West of Race Rocks Light.
       (b) East of Race Rocks Light.
   III : Prominent objects from Plane Table Sheets.

3. Practically all of the skyline peaks on the United States side of the Straits have snow during the winter season. Most of the higher ones (3500-4000 and higher) have some patches of snow until late in the summer. The higher the peak, the greater the quantity of snow. While the NATOMA was working in this vicinity, most of all of these skyline peaks were covered with clouds during the larger part of the time. This frequency with which they were covered with clouds considerably increased the difficulty of locating them and may in the future materially reduce their value as landmarks.

4. The peaks and other objects in the foreground (I(b)) will be particularly valuable during these periods that the skyline peaks are in the clouds.

5. The peaks etc. on the United States side of the Straits were mostly located by directions taken from stations on the Canadian side of the Straits. Special arrangements were necessary to secure permission to occupy these stations, the arrangements not being completed until after the middle of June.
6. On the Canadian side of the Straits, the peaks are not nearly as high as on the United States side, nor do they appear as prominent. The peaks located were selected as the most prominent in the locality.

7. Along the Canadian shore east of Race Rocks Light House practically no objects were located. For this section there are large scale detailed charts of Victoria and Esquimalt harbors and approaches. This area has been surveyed much more in detail than would be possible from the United States shore and the charts show many objects which can be used by the navigator. By far the most prominent of such objects are the two described viz TOWER and OBSERVATORY.

8. To all of the objects described have been prefixed one of the following marks: the indication of each mark being given.

* Of sufficient prominence to be charted.
# Of decided use for a maneuvering chart.
Objects so marked are generally such as probably would not be readily identified on a single passage through the Straits but can be easily identified and used by anyone cruising in the Straits for a more or less extended period.
0 An object of lesser prominence, possibly useful on a maneuvering chart.

9. In connection with this work there is being forwarded under separate cover the following
(a) Field notes of possible use in investigating other directions than those computed.
(b) Geological Survey maps on which are indicated many of the peaks located.
(c) Work sheet, projection 1/80,000, showing objects located by triangulation.
(d) Book of horizontal and vertical sextant angles taken to locate many of these peaks before Canadian stations were occupied.

Respectfully Submitted

[Signature]

HAROLD A. COTTON, H. & G. E.
Commanding NATOMA.

Enclosures as per paragraph two.
I. OBJECTS ON UNITED STATES (SOUTHERN) SIDE OF STRAITS

(a) SKYLINE PEAKS, ETC.
(Sare unless otherwise noted)

* BIG

High rounded top on skyline ridge south of Twin Rivers. Point located is distinct knob on east end of summit. This peak is highest and most conspicuous in vicinity: it shows bare and light from eastward and has a spur ridge running toward shore.

# WIN

To the west of BIG, there is a skyline ridge with four distinct high points. The center summits are higher but not as distinct tips as the end summits. WIN is the western end summit; it is quite a sharp distinct tip.

# ARE

Are is the eastern end summit of the above ridge; it is a square topped (__) peak with a spur ridge running toward shore.

# WAVE

Western and highest of two wooded knobs forming the most easterly high point of the same ridge of which BIG forms the westerly high point. This knob has a rather wavy top. The highest point was located. It is about the center point of the knob.

+ LAT

Sourdough Mountain

All of the above peaks (BIG, WIN, ARE, and WAVE) are on one main ridge running about parallel to the coast. Peaks LAT, NOT and FAR are on a higher ridge behind (to the south of) the first ridge. LAT is the first (most westerly) prominent peak visible on the ridge. It is a flat topped double peak, the eastern point of which was located. Viewed from the eastward there is a sharp nib to the right of the peak.

# NOT

Aurora Peak

On the same ridge and to the eastward of LAT. A summit with two rather sharp tops, the eastern of which is notched and so forming two tips. The point located is the eastern of the latter two.

# FAR

On the same ridge and to the eastward of LAT and NOT; NOT is about midway between LAT and FAR. This is a distinct high sharp peak showing clearly from north and west but frequently obscured from positions to the eastward. There is a spur ridge running down to the north and west and on the north face there is either a slide or a large bare area. Snow streaks in season. (No triangulation check. Check by sextant cuts, Position checks with Geological Survey Map.)
Conspicuous rounded knob forming high point of summit Mt. Storm King of skyline ridge directly back of Crescent Bay. It is the highest and most prominent peak in the vicinity with the exception of RIG which is three miles to the eastward. From westward the top is decidedly rounded; from eastward it has a more sharp outline.

On skyline ridge forming western flank of Elwha River Valley; it is the highest point on the ridge as well as in this vicinity for many miles around. This summit has two high points; the western is a smoothly rounded top and the eastern is somewhat sharp. The western appears to be the highest and was the one located. It is a wooded peak.

A large conspicuous dark brown rock face soar showing on the mountain side just below the eastern shoulder of the same ridge as that on which RIG is located. The eastern shoulder of this ridge is a rather distinct sharp corner; Rock is just below and a little to the west.

Peak forming eastern tip of ridge behind Rock. From eastward this is a skyline ridge.

Peaks on the same ridge as and to the westward of VALL.

Two high points on ridge about \frac{1}{2} miles distant from each other. Eastern peak TAN; Western peak FIN. These peaks cannot be seen from westward.

Rounded top summit forming western shoulder of high ridge behind Unicorm Peaks.

High flat dome shaped summit on the same ridge as and just to the east of OVAL; is distinctly the highest point on the ridge.

The Unicorn Peaks
Two conspicuous sharp pinnacle rock tips on the top of a ridge directly south of Angeles Point. They are only about 500 Meters distant from each other. From Port Angeles they are in range but from most other positions along and off shore they can both be seen.

The two summits of rather the east and west tip of the HIGH(EAST)ridge forming the summit of the high conspicuous mountain Mt. Angelus directly behind Port Angeles. This peak is known as Mt. Angelus. The two high points appear to set far back and are of about equal elevation.
* SAW 
A saw toothed top directly in front of Mt. Angelus; this saw toothed outline is distinct from east and west but not from north. It is known as Second Top, HIGH(EAST) being the first top.

* ROUND 
High conspicuous peak just east of Mt. Angelus. Only slightly lower than Mt. Angelus. From offshore the summit appears as an east and west ridge with a rounded wavy top. There is a notch just east of the high portion of the ridge; point located is just west of this notch. Peak is sometimes known as Klahhane Peak.

* BOUL 
Distinctly bare, rather rounded, lower summit directly in front of Klahhane Peak. Summit appears as an immense boulder. This peak lies below Klahhane peak and accordingly does not stand out distinct from positions to north but is very distinct from positions east and west.

* SUM 
Lower round topped, wooded summit just east of Klahhane Burnt Mt. Much lower (about 1200 ft.) than Klahhane peak.

* KNOB 
On a skyline ridge behind and to the west of LONE. Ridge appears to run parallel to the coast. Knob is a distinct knob directly west of a straight portion of the ridge; to the west of it there are numerous knobs.

* LONE 
A high rather isolated mountain south of Green Point. Top is somewhat flat and irregular, the summit appearing furtherest back. From directly off shore, summit is center of three knobs.

* SENT 
High conspicuous peak forming the eastern end of a high irregular skyline ridge behind and to the east of LONE. From the westward a lower peak shows just to the right.

* NAR 
Top of a narrow lower ridge N. E. of SENT. A rounded wavy top with a trifile lower tip just to the westward.

* BROW 
High distinct summit with brown diverging patch on north slope. Numerous high peaks behind to the westward.

* LAST 
Top of the last high ridge to the eastward as seen from positions in the Straits of Juan de Fuca.

* SYM 
Relatively low very symmetrical peak about midway between BROW and LAST.
I. OBJECTS ON UNITED STATES (SOUTHERN) SIDE OF STRAITS

(b) PEAKS ETC. BELOW THE SKYLINE

* DOME

A rounded dome summit about a mile and a half north east of DOME. On a lower front ridge, ridge with BID, WAVE, ETC., being just behind it. When the back ridge is covered this is a very prominent peak.

* GRAY

Large gray rock face scar on northeast side of DOME above.

* DOUBLE

Upper of two very prominent rock scars on mountain side just east of DOME. Scars nearly in line vertically. Both scars are rather elongated vertically and colored dark brown.

* GRAVEL

Oranged color gravel scar on west end of low ridge just southeast of Low Point.

* TRIM

An intermediate (in height) roughly pyramidal peak just south of Crescent Bay. Shows well from Freshwater Bay and westward. Does not show much east of Freshwater Bay. This is the highest peak in the foreground in this locality.

* MIT

Rounded summit just south and east of Low Point. Closest to shore of the peaks approaching 2000 feet elevation. In range with Aurora peak and not Sugar Loaf Mountain. (South)

* SOUTH

A high peak just east of WAVE and directly south of Low Point. Approximately the same elevation as WAVE. This is not a skyline peak but appears as a very regular slightly truncated peak just below the skyline and in the center of quite a large basin. The eastern corner of the top was located.

* EAST

An intermediate height about halfway between MIT and:

* RIGHT & LEFT

Two intermediate heights of nearly the same elevation on either side of the Elwha River; they are the highest peaks in front of and below the skyline ridge. RIGHT can be identified for a considerable distance to the eastward whence it appears as a rather rounded summit. RIGHT is the eastern end and LEFT the western end of the respective ridges.

* STRIPE

Western and highest of two summits on headland between Crescent Bay and Freshwater Bay.
OBJECTS ON UNITED STATES (SOUTHERN) SIDE OF STRAITS

(b) PEAKS ETC. BELOW THE SKYLINE

A prominent tip just in front of the Unicorn peaks. From Port Angeles this peak appears rather close, just west of the Unicorn peaks. Not very prominent from positions to the westward.

The western and eastern tips respectively of a lower rather prominent summit five miles southeast of Port Angeles. Easily identified from its position on the chart. This peak is directly south of Morse Point, is at the head of Morse Creek and just in front of Klahane peak and Burnt Mountain. Harry, the eastern tip is the highest.

The highest point of another intermediate summit just east of and further south than Mt. Pleasant (TOM and HARRY). About a thousand feet higher than Mt. Pleasant.

A very prominent lower summit just south of Dungeness Bay and west of Washington Harbor. Very symmetrical outline, slopes fully wooded and of rather gentle slope. From numerous positions the thick growth at the top appears as a distinct clump.

A lower summit about four miles west of CROWN, about the same elevation and very similar in appearance to CROWN. Top is not quite as sharp and there is no crowning clump. There are no other peaks in this vicinity appearing at all similar to these two peaks.

A very conspicuous tuft of trees on a low hill directly south of Protection Island. This hill is the first hill near shore from the eastward. It is the eastern end of a ridge between Port Discovery and Washington Harbor. The summit is generally bare except for this tuft of trees which is a little to the east of the highest point.

On same general ridge as TUFT. There are four general high points on this ridge. Green is the third, TUFT being the first from eastward. This summit is wooded almost to the top but the top is a distinct bare tip, very green with grass and brush in season.

Rounded top directly behind Washington Harbor. The fourth and most westerly high point of the same ridge as that on which TUFT and GREEN are located. From certain angles a sort of vegetation streak runs directly to the top. Whole top thickly wooded.
OBJECTS ON
CANADIAN (NORTHERN) SIDE OF STRAITS
(a) WEST OF RACE ROCKS

* WHITE

A conspicuous large distinctly white boulder on the hillside about five miles west of Sheringham Light. Elevation about 2000 ft.

NOTE: No check on this position. Out from Tongue Point very evidently wrong; White probably cannot be seen from Tongue Point.

* BROWN

A large rather conspicuous brown eroded patch on hillside two miles west of Sheringham Light. A small patch above and to the right will help identify it.

* ARROW

A second large rather conspicuous brown patch on hillside; this one just east of Sheringham Light. Top is enlarged somewhat like

* DISH

Distinct high, very flatly rounded summit on skyline directly Sheringham Point. Tuft of trees just to left of center. Highest point in the vicinity.

# LIGHT

High very sparsely wooded summit on skyline about midway between DISH and VAN.

* SOOKE

Highest peak of group just north of Sooke basin. From west shows left hand and from east shows right hand. Mostly bare with numerous light brown patches (July).

* VAN

High distant summit north of Sooke Basin. Pyramidal shaped Empress Peak with rounded tip at summit.

* TWO

Right hand (easterly) shoulder of rather small low ridge just west of Otter Point. Top of ridge is rather flat and both shoulders have large brown patches. On the lower near shore slope of the ridge there is a very conspicuous large red boulding (this building could not be seen from the United States side)

# MARK

High point of low hill at head of Sooke Inlet. Stands somewhat alone.

# TREE

Highest and most westerly of the several hills east of Mt. MACGREGOR Sooke Inlet and south of Sooke Basin.

* NEBK

A round topped hill off the north east corner of Beachy Bay. Very similar in appearance to DOE. Cannot be seen from eastward.
OBJECTS ON
CANADIAN (NORTHERN) SIDE OF STRAITS

(a) WEST OF RACE ROCKS

* DOT A very conspicuous low almost semi-spherical hill on the most southerly point of the east side of Becher Bay.

* DONALDEON ISLAND Refer to chart and B. C. Coast pilot.

* BEDFORD ISLANDS Refer to chart and B. C. Coast Pilot.

* BECHER BAY

* BEECHY Beechy Head on which the Beechy Head monument is located. HEAD is a very prominent headland and the monument itself can be seen MONUMENT for a considerable distance.

II OBJECTS ON CANADIAN (NORTHERN) SHORE OF STRAITS

(b) East of Race Rocks Light

OBSERVATORY The prominent white dome of the Astronomical observatory on Saanich Hill. This dome is by far the most prominent landmark along the Straits.

TOWER A very prominent tall chimney like tower standing off to the east of Victoria. Perhaps a standpipe.
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Note: The table continues with more data rows.
Skyline Peak - from westward

A. Sharp tip directly behind Twin Rivers

B. bowl-shaped peak, flat ridge running toward shelf

C. Rounded high tip, knot, east end, smooth base

D. Location and highest of two knobs forming

D-2. Flat-topped double peak in distance (shades right to left from eastward)

E. High points on far ridge. East side of two tips

F. High point on far ridge - slide on north face, snow streaked in season

G. Conspicuous rounded knob, highest point of summit in front of above peak

H. First high summit on ridge forming western flank of Elisha river valley

I. Peak, broken, shaded, rocky cliff, showing north, below bow (extreme east tip) of shoulder of same ridge as above
Easterly of two high peaks directly behind.

Part angulär, very rounded, wavy top.

Approach at E-W ridge-north is west of high point.

Lower bare, then front of above large brown rock mass forming top.

Highest part southern ridge.

Laws ca. 13 from angles.

Lower rounded summit is east of 11.

High peak behind 13. Jose not so low.
West of infra. Pt. First high at east of 13.

Between 14a and 16. There is a ridge running more or less parallel to above.

Summit ridge along the top. Eastern knob at 15.15 east. 15.15 west knob (Continued).

Highest part of high summit behind.

Ave. rather hilly.

From directly off center of three knobs.

Anticline hills, making eastern end of regular ridge behind and east of 16.

Pt. Front from western lobes, halloes just tonight.

Narrow ridge, rounded waving.

Narrow lower.

Narrowed, being.

Narrowed.

High summit with brown, diverging patch on top. Slope high peaks behind.

Relatively low, very symmetrical peak. (About midway between 19 & 21.

Last high ridge (NW. S.E.), rather narrow, brown patch on side.

From westward, wooden summit behind a show, or form.
Lower Prakes and Intermediate Cliffs

a. Hill - small hill back of Îmni River
b. Roll - from eastward small eastern end of ridge
c. Pit - from eastward near eastern edge right part ridge
d. Face - scar rock face showing north side intermediate
e. Dome - rounded dome, summit d on north face of it
f. Double - double scar
f. Prake - travel scar west and low ridge east f Scallow
t. Same - last small to eastward same ridge d t f
g. Tuff - rounded intermediate summit
h. One - direct south of g
i. One - east to east of g
j. Low - low rounded Hill, closest to shore of prake
k. Higher summit S.E. 1-2
A. Buildings in foreground
B. Buildings behind Crescent Bay
C. Striped peak western and highest top
D. Stripe on scar on north face
E. Buildings highest of group to eastward
F. Oval topped hill between j, 3 and g
G. Low summit behind Observation Point
H. Knoll along ridge to east of summit
I. High points on brow of first ridge
J. Left on either side of Eloka River
K. First ridge behind Port Angeles
L. First low ridge west Eloka River valley
M. Bold round top directly above valley
N. Low ridge to west of Port Angeles
O. Toward Eloka valley clump trees east shoulder
P. Lower ridge directly behind Port Angeles
Q. Western one - clump of trees in front of Rangley
Two lower hills behind Mount Creek Pt
- Western a low ridge more or less parallel to

\[1\] Tom - western tip of ridge
\[2\] Nancy - eastern tip - highest tip
\[3\] Beck - eastern is further inland and highest

\[4\] Kift - lower hill to northwest of E

\[5\] Share (about midway between Green Pt.)

\[6\] Distinct curved stand behind Creek

\[7\] Dangorsed (lower hilly foreground value)

\[8\] Bare flat summit to east of E

\[9\] Bare - an irregular ridge with two forest type at either end now green with scattered trees

\[10\] Rounded top, directly behind loop Ht.

\[11\] Wash - appear as last summit to southeast of same ridge as following object

\[12\] 20% vegetation, stretch from center angled
C2 Green field hill from eastward, timber to near the top. Bare green tips.

2. Crutch Second hill from eastward. Crutch on summit. Section and lower of two tips, forming crutch.

A toff first low hill from eastward. Toft of two tofts left of almost bare summit.

From City House, Lt

1. Out full top of hill
2. End of hill
3. Summit 1.2
4. Sharp summit E
5. Hilltop
6. W of summit
7. Center and highest of 3 on skyline
8. Center of corn ridge very flat
9. High E summit of foot hill
10. Summit of foot hill
11. Highest bump from corn shoulders on skyline
12. Shoulders over corn pitch W of notch
13. End notch
Ph. E of

15 Summit W of

16 Highest land E E part of ridge

17 West Arm

18 Far Arm

19 E  and low ridge

20 E. Pk of saddle

21 E Pk of notch

22 Off S. end of skid

24 Dust indefinite hill
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<th>LEAD LINE</th>
<th>VALUE</th>
<th>POINT</th>
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**Angles and Ranges**

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| C    | 110-12  | 6-18 |

**Remarks and General Direction**

- Heading toward shore

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**SOUNDINGS**

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* X - Monument

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* X - Movement
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**Remarks**

- X - Lyre
- X - Mid
- X - Range
- X - Range
- X - Range
- X - Range
- X - Range
- X - Range
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*Note: The handwriting and the data are not clearly legible due to the quality of the image.*
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  

TOPOGRAPHIC TITLE SHEET  
Prepared in Office of F.R.  
(Reconnaissance)  

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.  

Field No.  
REG. NO. 4236  

State...Washington  

General locality...Strait of Juan de Fuca  

Locality...Port Discovery to Glacier Pt., Vancouver.  

Scale...1:90,000...Date of survey..Apr.-July....1926  

Vessel...Natomac  

Chief of Party...H.A. Cotton  

Surveyed by...H.A.C.  

Inked by...  

Heights in feet above...to ground...to tops of trees  

Contour, Approximate contour, Form line interval...feet  

Instructions dated...Mar.4....1926  

Remarks:...Mountain Peaks and Prominent Objects on both sides of Strait of Juan de Fuca.